

Exploring Aeronautics			
2005 Mathematics			
Curriculum Frameworks			
Connecticut Mathematics			
Grade 5			
Activity/Lesson	State	Standards	
Wings(177-208)	CT	MA.5.3.1.b	Recognize that changes in the perimeter of a polygon may affect its area, and changes in area may affect the perimeter.
Science of Flight	CT	MA.5.4.2.a	Examine different data collection methods and their effects.
Integrating with Aeronautics	CT	MA.5.1.2.a	Recognize that a change in one variable may relate to a change in another variable.
Integrating with Aeronautics	CT	MA.5.1.3.a	Describe the general relationship between two sets of data using an equation or inequality.
Integrating with Aeronautics	CT	MA.5.2.1.a	Extend whole number place value patterns, models and notations to include decimals, which are fractions that have denominators that are multiples of ten.
Integrating with Aeronautics	CT	MA.5.2.1.d	Represent ratios and proportions and solve problems using models and pictures.
Scientific Method(124-144)	CT	MA.5.1.1.a	Identify trends and make predictions based upon patterns and data displayed in different formats.
Scientific Method(124-144)	CT	MA.5.4.1.a	Differentiate between numerical and categorical data and their appropriate representations.
Scientific Method(124-144)	CT	MA.5.4.2.a	Examine different data collection methods and their effects.
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2005 Mathematics			
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Connecticut Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
Wings(177-208)	CT	MA.6.3.3.b	Use specific ratios to convert between measures of length, area, volume, mass and capacity in the customary and metric systems.
The Resource Center	CT	MA.6.2.1.a	Relate whole numbers, fractions, decimals and integers to number lines, scales, the coordinate plane and problem- solving situations.
The Resource Center	CT	MA.6.2.1.d	Compare quantities and solve problems using ratios, rates and percents.
Integrating with Aeronautics	CT	MA.6.1.2.a	Represent and analyze mathematical relationships with the help of tables, graphs, equations and inequalities.
Integrating with Aeronautics	CT	MA.6.1.3.a	Solve real- world problems using algebraic methods.
Integrating with Aeronautics	CT	MA.6.2.1.a	Relate whole numbers, fractions, decimals and integers to number lines, scales, the coordinate plane and problem- solving situations.

Integrating with Aeronautics	CT	MA.6.2.2.a	Solve problems using a variety of computational strategies, including the use of calculators.
Integrating with Aeronautics	CT	MA.6.3.3.a	Solve problems involving measurement through the use of a variety of tools, techniques and strategies.
Scientific Method(124-144)	CT	MA.6.4.1.a	Display and compare sets of data using various systematic or graphical representations.
Scientific Method(124-144)	CT	MA.6.4.2.a	Describe the shape of data sets using the measures of spread and central tendency.
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2005 Mathematics			
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Connecticut Mathematics			
Grade 7			
Activity/Lesson	State	Standards	
The Resource Center	CT	MA.7.2.1.b	Understand the use of scientific notation as related to powers of ten as an efficient method for writing and comparing very large numbers.
Science of Flight	CT	MA.7.4.1.a	Select the appropriate visual representation of data based on the kind of data collected and the purpose for their use.
Integrating with Aeronautics	CT	MA.7.1.2.a	Describe the effects of characteristics of mathematical relationships on the way the relationships are represented.
Integrating with Aeronautics	CT	MA.7.1.3.a	Solve problems using a variety of algebraic methods.
Integrating with Aeronautics	CT	MA.7.2.1.b	Understand the use of scientific notation as related to powers of ten as an efficient method for writing and comparing very large numbers.
Integrating with Aeronautics	CT	MA.7.3.3.a	Solve geometric and measurement problems through the use of a variety of tools, techniques and strategies
Scientific Method(124-144)	CT	MA.7.4.1.a	Select the appropriate visual representation of data based on the kind of data collected and the purpose for their use.
Scientific Method(124-144)	CT	MA.7.4.2.a	Understand that measures of central tendency and spread can be used to describe data sets and justify conclusions.
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2005 Mathematics			
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Connecticut Mathematics			
Grade 8			
Activity/Lesson	State	Standards	
Wings(177-208)	CT	MA.8.3.1.a	Explore the relationships among sides, angles, perimeters, areas, surface areas and volumes of congruent and similar polygons and solids.
The Resource Center	CT	MA.8.2.1.a	Compare and order integers, powers and roots using number lines and grids.

Science of Flight	CT	MA.8.4.1.a	Construct appropriate representations of data based on the size and kind of data set and the purpose for their use.
Integrating with Aeronautics	CT	MA.8.1.3.a	Solve problems using various algebraic methods and properties.
Integrating with Aeronautics	CT	MA.8.2.1.a	Compare and order integers, powers and roots using number lines and grids.
Integrating with Aeronautics	CT	MA.8.2.2.a	Solve problems involving fractions, decimals, ratios and percents.
Integrating with Aeronautics	CT	MA.8.3.3.b	Solve problems involving measurement through the use of appropriate tools, techniques and strategies.
Scientific Method(124-144)	CT	MA.8.4.1.a	Construct appropriate representations of data based on the size and kind of data set and the purpose for their use.